PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 19 JUL 2004

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Applica BIE00		_	nt's file reference	FOR FURTHER ACT	Preliminary Ex	on of Transmittal of Internation camination Report (Form PC	onal T/IPEA/416)
• • • • • • • • • • • • • • • • • • • •				International filing date (da 19.04.2002	ay/month/year)	Priority date (day/month/y 19.04.2002	rear)
	ational _12/56		nt Classification (IPC) or bo	oth national classification an	d IPC		
Applic TELE		AKT	TEBOLAGET L M EF	IICSSON et al.			
1.	This i	ntern ority a	ational preliminary exa and is transmitted to the	mination report has been applicant according to A	prepared by this Int rticle 36.	ernational Preliminary Ex	amining
2.	This	REPO	ORT consists of a total	of 4 sheets, including thi	s cover sheet.		
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	Thes	e anr	nexes consist of a total	of sheets.			
3.	This	repoi	rt contains indications r	elating to the following ite	oms:		
	1		Basis of the opinion				
	11		Priority	opinion with regard to no	walty inventive ster	and industrial annlicabil	itv ·
	III IV		Lack of unity of inven		overty, inventive step	and moderna approach	,
	V	⊠	Reasoned statement	under Rule 66.2(a)(ii) wit tions supporting such sta	th regard to novelty,	inventive step or industri	al applicability;
ļ	VI		Certain documents c				
	VII		Certain defects in the	international application			
	VIII		Certain observations	on the international appl	ication		
Date	of suit	misei	on of the demand		Date of completion o	f this report	
	02.20		on die demand		16.07.2004	•	
''	VE.EU				10.07.2004		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 02/02306

l.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages		
	1-13		as originally filed	
	Claiı	ms, Numbers		
	1-15		as originally filed	
	Drav	wings, Sheets		
	1/3-3	3/3	as originally filed	
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item.			
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:	
		the language of a trai	nslation furnished for the purposes of the international search (under Rule 23.1(b)).	
		the language of publi	cation of the international application (under Rule 48.3(b)).	
		the language of a train Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).	
3.	Witl inte	n regard to any nucle ornational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:	
		contained in the inter	mational application in written form.	
		filed together with the	e international application in computer readable form.	
		furnished subsequen	ntly to this Authority in written form.	
		furnished subsequer	ntly to this Authority in computer readable form.	
		in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.	
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.	
4	. The	e amendments have r	esulted in the cancellation of:	
		the description,	pages:	
		the claims,	Nos.:	
		the drawings,	sheets:	

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

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This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims No:

1-15

Inventive step (IS)

Yes: Claims

Claims

1-15

1-15

Industrial applicability (IA)

Claims No:

Yes: Claims

Claims No:

2. Citations and explanations

see separate sheet

to section V.

- 1. The present invention relates to a proxy for at least one end-to-end data flow in a network, to a node in a wireless network, to a method for proxying at least one end-to-end data flow in a network and to a computer program product, according to the features of the four independent claims 1, 6, 8 and 15 respectively.
- 2. The cited documents in the international search report do not appear to get closer to the subject-matter of the independent claims than the documents already acknowledged by the applicant.
- 3. According to the features of the independent claims the inventive step consists in that the proxy comprises an estimation unit, for estimating a current minimum data load necessary to occupy a bandwidth available to the end-to-end data flow in the network, said estimation unit outputting a flow's pipe capacity estimation; a comparison unit, for comparing said estimated pipe capacity with a predetermined capacity threshold; a decision unit, for deciding to proxy said flow if said estimated pipe capacity lies above said capacity threshold and a routing unit, for routing said flow according to the decision. This makes it possible to reduce the processing load of the host running the proxy, by only proxying those end-to-end connections for which a margin for performance improvement exists, while routing connections for which the effort of proxying is not justified by the potential benefit without proxying towards the end-points

The underlying concept is not disclosed in or rendered obvious by the cited prior art documents. The subject-matter of the independent claims thus fulfils the requirements of Article 33 PCT.

4. The dependent claims contain further details on the subject-matter of the respective independent claims. These dependent claims merely limit the scope of protection sought by the independent claims and are therefore also considered to fulfil the requirements of Article 33 PCT.